# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Declaration and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled SILICA STRUCTURE CRACK MONITORING, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the annication on which priority is claimed:

#### None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

### None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Martin I. Finston Barry H. Freedman Jimmy Goo Stephen M. Gurey John M. Harman Marthew J. Hodulik Michael B. Johannesen Irena Lager Reitseng Lin John B. MacIntyre Christopher N. Malvone Michael A. Morra Gregory J. Murgia Claude R. Narcisse Joseph J. Opalach Neil R. Pentrod Gregory C. Ranieri Gregor	Kenneth M. Brown Donald P. Dinella	(Reg. No. 37590) (Reg. No. 39961)
Julio A. Garceran Jimmy Goo Siephen M. Gurey John M. Harman Mathew J. Hodulik Michael B. Johannesen Jenea Lager Reitseng Lin John B. MacIntyre Christopher N. Malvone Michael A. Morra Gregory J. Murgia Claude R. Narcisse Joseph J. Opalach Rosenthal Gregory C. Ranieri Eugene J. Rosenthal Gregory C. Ranieri Eugene J. Rosenthal Ronald D. Slusky Ozer M. N. Teitelbaum Charles L. Warren  (Reg. No. 37539) (Reg. No. 3658) (Reg. No. 26958) (Reg. No. 26958) (Reg. No. 26958) (Reg. No. 26658) (Reg. No. 26658) (Reg. No. 26658) (Reg. No. 26658)	Martin I. Finston	(Reg. No. 31613)
Jimmy Goo         (Reg. No. 36528)           Stephen M. Gurey         (Reg. No. 27336)           John M. Harman         (Reg. No. 38173)           Matthew J. Hodulik         (Reg. No. 36164)           Michael B. Johannesen         (Reg. No. 35557)           Irena Lager         (Reg. No. 92260)           Reitseng Lin         (Reg. No. 48170)           Ohristopher N. Malvone         (Reg. No. 48066)           Michael A. Morra         (Reg. No. 38975)           Gregory J. Murgia         (Reg. No. 481209)           Claude R. Narcisse         (Reg. No. 36029)           Joseph J. Opalach         (Reg. No. 35029)           Neil R. Ormos         (Reg. No. 35030)           Jack R. Penrod         (Reg. No. 36086)           Gregory C. Ranieri         (Reg. No. 26955)           Eugene J. Rosenthal         (Reg. No. 26585)           Roral G. W. N. Teitelbaum         (Reg. No. 3608)           Charles L. Warren         (Reg. No. 26685)	Barry H. Freedman	(Reg. No. 26166)
Stephen M. Gurey   (Reg. No. 27336)   (Neg. No. 36164)   (Reg. No. 35587)   (Reg. No. 35587)   (Reg. No. 42804)   (Reg. No. 34866)   (Reg. No. 34866)   (Reg. No. 36079)   (Reg. No. 3	Julio A. Garceran	(Reg. No. 37138)
John M. Harman   (Reg. No. 38173)   Matthew J. Hodulik   (Reg. No. 351674)   Michael B. Johannesen   (Reg. No. 35557)   Irena Lager   (Reg. No. 39260)   John B. MacIntyre   (Reg. No. 41170)   Christopher N. Malvone   (Reg. No. 41170)   Michael A. Morra   (Reg. No. 28975)   Gregory J. Murgia   (Reg. No. 28975)   Joseph J. Opalach   (Reg. No. 35209)   Joseph J. Opalach   (Reg. No. 35029)   Jack R. Penrod   (Reg. No. 35028)   Gregory C. Ranieri   (Reg. No. 29665)   Eugene J. Rosenthal   (Reg. No. 26688)   Ronald D. Slusky   (Reg. No. 26688)   Ronald D. Slusky   (Reg. No. 26688)   Care M. N. Teitelbaum   Charles L. Warren   (Reg. No. 26681)   Reg. No. 26688)   Reg. No. 26688)   Reg. No. 26585)   Reg. No. 26681	Jimmy Goo	(Reg. No. 36528)
Matthew J. Hodulik         (Reg. No. 35164)           Michael B. Johannesen         (Reg. No. 35206)           Irena Lager         (Reg. No. 39226)           Reisteng Lin         (Reg. No. 42804)           John B. MacIntyre         (Reg. No. 34804)           Christopher N. Malvone         (Reg. No. 38975)           Michael A. Morra         (Reg. No. 28965)           Claude R. Narcisse         (Reg. No. 38079)           Joseph J. Opalach         (Reg. No. 35029)           Jack R. Penrod         (Reg. No. 35039)           Gregory C. Ranieri         (Reg. No. 29695)           Eugene J. Rosenthal         (Reg. No. 26585)           Romald D. Slusky         (Reg. No. 3606)           Ozer M. N. Teitelbaum         (Reg. No. 2608)           Charles L. Warren         (Reg. No. 27407)	Stephen M. Gurey	(Reg. No. 27336)
Michael B. Johannesen Irena Lager Reitseng Lin John B. MacIntyre Christopher N. Malvone Michael A. Morra Gregory J. Murgia Claude R. Narcisse Neil R. Ormos Jack R. Pennod Gregory C. Ranieri Gregory C. Ranieri Eugene J. Rosenthal Ronald D. Slusky Ozer M. N. Teitelbaum Charles L. Warren	John M. Harman	(Reg. No. 38173)
Irena Lager         (Reg. No. 39260)           Reitseng Lin         (Reg. No. 42260)           John B. MacIntyre         (Reg. No. 42170)           Christopher N. Malvone         (Reg. No. 34866)           Michael A. Morra         (Reg. No. 34866)           Gregory J. Murgia         (Reg. No. 61209)           Claude R. Narcisse         (Reg. No. 36229)           Joseph J. Opalach         (Reg. No. 35039)           Neil R. Ormos         (Reg. No. 35039)           Jack R. Penrod         (Reg. No. 26955)           Eugene J. Rosenthal         (Reg. No. 26958)           Romald D. Slusky         (Reg. No. 36688)           Ozer M. N. Teitelbaum         (Reg. No. 36698)           Charles L. Warren         (Reg. No. 26787)	Matthew J. Hodulik	(Reg. No. 36164)
Reitseng Lin (Reg. No. 42804) John B. MacIntyre (Reg. No. 4170) Christopher N. Malvone Michael A. Morra (Reg. No. 1470) Claude R. Narcisse (Reg. No. 1209) Claude R. Narcisse (Reg. No. 38979) Dack R. Pennod (Reg. No. 35039) Dack R. Pennod (Reg. No. 3504) Gregory C. Ranieri (Reg. No. 29695) Eugene J. Rosenthal (Reg. No. 29695) Eugene J. Rosenthal (Reg. No. 26585) Ozer M. N. Teitelbaum (Reg. No. 26688) Charles L. Warren (Reg. No. 27407)	Michael B. Johannesen	(Reg. No. 35557)
John B. MacIntyre   (Reg. No. 41170)     Christopher N. Malvon   (Reg. No. 34866)     Gregory J. Murgia   (Reg. No. 28975)     Claude R. Narcisse   (Reg. No. 38979)     Joseph J. Opalach   (Reg. No. 38979)     Joseph J. Opalach   (Reg. No. 38979)     Jack R. Pentrod   (Reg. No. 35049)     Gregory C. Ranieri   (Reg. No. 29665)     Eugene J. Rosenthal   (Reg. No. 26688)     Ronald D. Slusky   (Reg. No. 26585)     Charles L. Warren   (Reg. No. 26681)     Reg. No. 26585)     Charles L. Warren   (Reg. No. 26693)	Irena Lager	(Reg. No. 39260)
Christopher N. Malvone Michael A. Morra (Reg. No. 24866) (Reg. No. 241209) (Llaude R. Narcisse Joseph J. Opalach Neil R. Ormos (Reg. No. 25039) Jack R. Penrod (Reg. No. 26095) Eugene J. Rosenthal (Reg. No. 26055) (Reg. No. 26585) (Reg. No. 26585) (Reg. No. 26685) (Reg. No. 26780)	Reitseng Lin	(Reg. No. 42804)
Michael A, Morra (Reg. No. 28975) Gregory J. Murgia (Reg. No. 41209) Claude R. Narcisse (Reg. No. 38979) Joseph J. Opalach (Reg. No. 36229) Neil R. Ormos (Reg. No. 30229) Jack R. Penrod (Reg. No. 31864) Gregory C. Ranieri (Reg. No. 29695) Eugene J. Rosenthal (Reg. No. 26585) Ronald D. Slusky (Reg. No. 26585) Ozer M. N. Teitelbaum (Reg. No. 26685) Charles L. Warren (Reg. No. 27407)	John B. MacIntyre	(Reg. No. 41170)
Gregory J. Murgia         (Reg. No. 41209)           Claude R. Narcisse         (Reg. No. 38979)           Joseph J. Opalach         (Reg. No. 56229)           Neil R. Ormos         (Reg. No. 53509)           Jack R. Penrod         (Reg. No. 29695)           Eugene J. Rosenthal         (Reg. No. 26658)           Romald D. Slusky         (Reg. No. 26658)           Ozer M. N. Teitelbaum         (Reg. No. 36698)           Charles L. Warren         (Reg. No. 27407)	Christopher N. Malvone	(Reg. No. 34866)
Claude R. Narcisse Joseph J. Opalach Neil R. Ormos Keg. No. 36229) Jack R. Penrod Gregory C. Ranieri Eugene J. Rosenthal Ronald D. Slusky Cozer M. N. Teitelbaum Charles L. Warren (Reg. No. 36858) (Reg. No. 26855) (Reg. No. 26858) (Reg. No. 26885) (Reg. No. 26785)	Michael A. Morra	
Joseph J. Opalach Neil R. Ormos Reg. No. 35229) Jack R. Penrod Gregory C. Ranieri Eugene J. Rosenthal Rosenthal D. Slusky Ozer M. N. Teitelbaum Charles L. Warren Reg. No. 26885) Rog. Reg. No. 26585) Rog. Reg. No. 26585) Rog. Reg. No. 26585)	Gregory J. Murgia	
Neil R. Ormos (Reg. No. 53509) Jack R. Pennod (Reg. No. 13864) Gregory C. Ranieri (Reg. No. 13664) Eugene J. Rosenthal (Reg. No. 26985) Gare M. N. Teitelbaum (Reg. No. 26885) Care M. N. Teitelbaum (Reg. No. 26985) Grafte S. L. Warren (Reg. No. 27407)	Claude R. Narcisse	(Reg. No. 38979)
Jack R. Penrod         (Reg. No. 31864)           Gregory C. Ranieri         (Reg. No. 29695)           Eugene J. Rosenthal         (Reg. No. 36658)           Ronald D. Slusky         (Reg. No. 26585)           Cery M. N. Teitelbaum         (Reg. No. 36698)           Charles L. Warren         (Reg. No. 27407)	Joseph J. Opalach	
Gregory C. Ranieri (Reg. No. 29695) Eugene J. Rosenthal (Reg. No. 36658) Ronald D. Slusky (Reg. No. 26585) Ozer M. N. Teitelbaum (Reg. No. 36698) Charles L. Warren (Reg. No. 27407)	Neil R. Ormos	
Eugene J. Rosenthal (Reg. No. 36658) Ronald D. Slusky (Reg. No. 26585) Ozer M. N. Teitelbaum (Reg. No. 36698) Charles L. Warren (Reg. No. 27407)	Jack R. Penrod	
Ronald D. Slusky Ozer M. N. Teitelbaum Charles L. Warren  (Reg. No. 26585) (Reg. No. 36698) (Reg. No. 27407)	Gregory C. Ranieri	
Ozer M. N. Teitelbaum (Reg. No. 36698) Charles L. Warren (Reg. No. 27407)	Eugene J. Rosenthal	(Reg. No. 36658)
Charles L. Warren (Reg. No. 27407)	Ronald D. Slusky	(Reg. No. 26585)
	Ozer M. N. Teitelbaum	(Reg. No. 36698)
Eli Weiss (Reg. No. 17765)	Charles L. Warren	(Reg. No. 27407)
	Eli Weiss	(Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1" joint inventor: Gardy Cadet		
Inventor's signature Audy Codet Date 5/0401		
Residence: Orange, NJ, USA		
Citizenship: USA		
Post Office Address: 225 Austen Road, Orange, NJ 07050, USA		
Full name of 2 <sup>nd</sup> joint inventors Thomas E. Stockert		
Inventor's signature Date 1/02/01		
Residence: Millburn, NJ, USA		
Citizenship: USA		
Post Office Address: 29 Norwood Terrace, Millburn, NJ 07041, USA		
Full name of 3 <sup>rd</sup> joint inventor: Victor M. Lubecke		
Inventor's signature Victor in Luback Date 5/3/01		
Residence: New Providence, NJ, US		
Citizenship: USA		
Post Office Address: 48 Dunkap Street, New Providence, NJ 07974		
12 The Arbors		

# ATTACHMENT A

Attorney Name(s):	Reg. No.:
Austin R. Miller	Reg. No. 16,602
James A. Drobile	Reg. No. 19,690
T. Daniel Christenbury	Reg. No. 31,750
Guy T. Donatiello	Reg. No. 33,167
Paul A. Taufer	Reg. No. 35,703
Joan T. Kluger	Reg. No. 38,904
Michael A. Patane	Reg. No. 42,982
Robert A. McKinley	Reg. No. 43,793
Sharon Fenick	Reg. No. 45,269
Stewart Wiener	Reg. No. 46,201
Felicity Rowe	Reg. No. 47,042
Stephenie Yeung	Reg. No. 48,052
Frank A. Cona	Reg. No. 38,412

Telephone calls should be made to  $\underline{JOAN\ T.\ KLUGER}$  at Schnader Harrison Segal & Lewis LLP:

Phone No.: (215) 751-2357 Fax No.: (215) 568-6946

All written communications are to be addressed to:

IP Department Schnader Harrison Segal & Lewis LLP 1600 Market Street, Suite 3600 Philadelphia, PA 19103